

March 22, 1949.

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2,465,121

PACKING DEVICE FOR ANNULAR ARTICLES

Filed Aug. 14, 1945

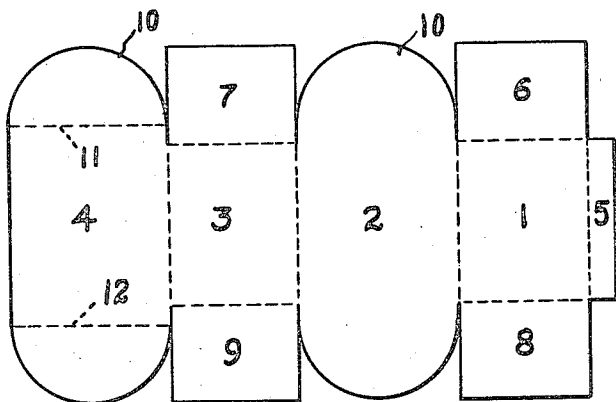


FIG. 1.

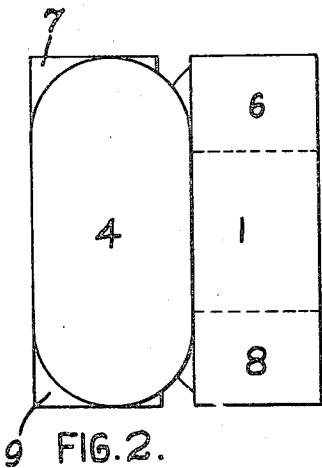


FIG. 2.

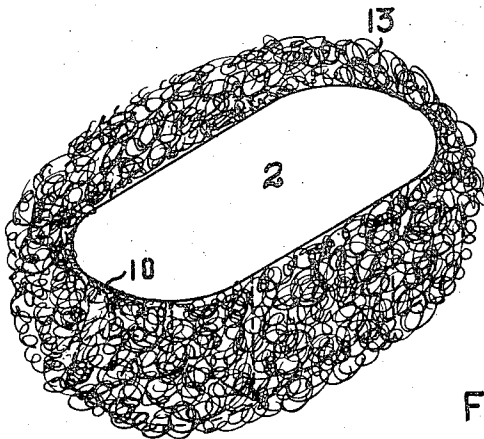


FIG. 3.

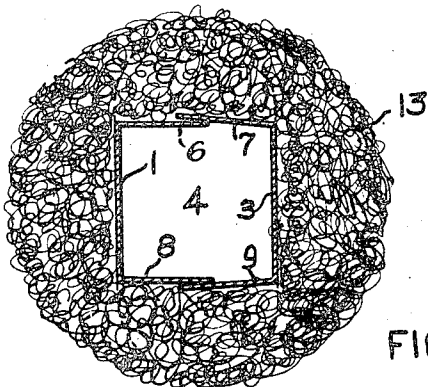


FIG. 4.

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2,465,121

PACKING DEVICE FOR ANNULAR ARTICLES

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Application August 14, 1945, Serial No. 610,727

7 Claims. (Cl. 206—46)

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My invention relates to a packing and merchandising device which may be inexpensively made from boxboard or other sheet material.

It is an object of my invention to provide a device of the character indicated which may be employed with annular articles and serve not only to support the article and prevent detrimental deterioration of it, but also to facilitate the handling of individual articles and their packing in shipping containers.

It is also an object of my invention to provide a device which will facilitate the merchandising of the articles, and will serve to mark them with desired indicia, such as trade marks, manufacturers' names, identifying data, directions for use, and the like.

These and other objects of my invention which will be set forth hereinafter or will be apparent to one skilled in the art upon reading these specifications, I accomplish by that certain construction and arrangement of parts of which I shall now describe an exemplary embodiment.

The exemplary embodiment was designed as a packing and merchandising device for cleaning pads made of metal wool in an annular or dough-nut shape. It will be understood, however, that my structures may be used with other articles characterized by a perforation in which my device may be engaged as hereinafter set forth. Small coils of wire or cordage may be packed in this fashion, as well as assemblages of rubber bands, and other types of articles or sales units.

Reference is made to the drawings wherein Figure 1 is a plan view of a blank for my exemplary device.

Figure 2 is a plan view thereof after tubing.

Figure 3 is an isometric view of a completed package.

Figure 4 is a cross section of the package.

In the formation of my exemplary device, by means well-known and current in the folding carton industry, I provide a blank of cut, scored and preferably printed boxboard, characterized by body wall members 1, 2, 3 and 4 together with a glue flap 5 in articulation. One alternate pair of walls, in this instance the walls 1 and 3, are made very much shorter than the remaining walls and have articulated to their ends flaps 6, 7, 8 and 9 as shown. The remaining body walls 2 and 4 are made very much longer than the first mentioned walls. Preferably, though not necessarily, the ends of the body walls 2 and 4 are rounded as indicated at 10. For economy of board I ordinarily make the length of the body walls 2 and 4 equivalent to the length of the re-

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maining walls plus their attached flaps. The extensions of the body walls 2 and 4 beyond the ends of the remaining body walls will, however, be determined with respect to the nature and dimensions of the article to be packed.

One of the longer body walls may be provided with one or more transverse lines of score 11 and 12. These score lines are not necessarily located in alignment with the score lines by which the flaps are articulated to the body walls 1 and 3. In the event the article to be packed is readily deformable it is advantageous to locate the score lines 11 and 12 appreciably nearer the ends of the wall 4.

The blank illustrated in Figure 1 may be tubed by being bent on a pair of longitudinal intermediate score lines with the adhesive attachment of glue flap 5 to the free edge of wall 4, as will be readily understood. This tubing operation may be performed on any of the standard carton tubing and gluing machines known to the art.

The result is a tubular knocked down structure which may be shipped and stored flat, as shown in Fig. 2. When erected or squared up, and the flaps 6, 7, 8 and 9 bent over, the structure presents a rectangular body with an opposite pair of body walls 2 and 4 extending to their ends well beyond the rectangular body. Upon bending up the projecting ends of one of the longer body walls (if necessary on the score lines 11 and 12) the structure may be passed through an orifice in an annular or other article, such as the pad 13 of metal wool illustrated in Figure 3. When the ends of the longer body wall are released they will spring back substantially into coplanar position, leaving the annular article held, as it were, on a reel-shaped support. This will be apparent from Figures 3 and 4.

The body of my structure is fairly rigid and thus gives support to the annular article where that article is easily crushed or distorted. The large walls 2 and 4 lying on each side of the annular article furnish additional protection and serve to mark the article. They may be printed with whatever indicia or designs are thought advisable for identification or display.

In the case of metal wool pads it will be evident that my device not only serves to mark the pads, but acts to prevent them from losing their shape, becoming crushed and distorted. Where a quantity of pads is packed in a single container, my devices keep the pads separate, preserve their individual entities, and prevent the pads from becoming tangled with each other. My devices permit the stacking of the pads for storage, ship-

ment or display. For reasons already set forth, my devices facilitate the individual handling and sale of the pads; and the display matter on my devices enhances consumer appeal.

Modifications may be made in my invention without departing from the spirit of it. Having described my invention in an exemplary embodiment, what I claim as new and desire to secure by Letters Patent is:

1. A packing and merchandising device for perforated articles comprising a tubed structure formed of flexible material, having a plurality of body walls in articulation, a spaced pair of said walls having articulated flaps at their ends and another spaced pair of said walls extending substantially beyond the ends of the first mentioned pair of walls, so that upon erection of the tubed structure and the bending over of the said flaps, a packing device is provided having a relatively rigid body adapted to extend through the perforated article and a pair of walls the ends of which extend beyond said body and are adapted to lie on either side of the said article.

2. The structure claimed in claim 1 in which the projecting ends of one of said last mentioned walls are transversely scored to facilitate initial bending upon insertion of the device in the perforation of the article.

3. The structure claimed in claim 1 in which the projecting ends of one of said last mentioned walls are transversely scored to facilitate initial bending upon insertion of the device in the perforation of the article; said scores being located in said extensions beyond the ends of said body.

4. A packing and merchandising device for perforated articles comprising a tubed device formed of flexible material, a pair of spaced walls having articulated flaps at their ends and another pair of spaced walls extending substantially beyond the ends of the first mentioned walls, so that upon erection of the tubed device and the bending over of the said flaps, a packing device is provided having a relatively rigid body adapted to extend through a perforation in the said perforated article and a pair of walls the ends of which extend beyond said body and are adapted to lie on either side of the said article; said last mentioned walls, at least, bearing printed indicia appropriate to the said article.

5. In a package an article having a perforation and a packing device for said article of boxboard having body walls in articulation, a spaced pair of said body walls having flaps articulated to their

ends, another spaced pair of said body walls having end portions extending beyond the ends of the first mentioned pair of body walls, said packing device being in erected condition with said flaps bent over and said first mentioned walls extending through the perforation in the packed article, the last mentioned pair of walls lying respectively on each side of said article and retaining it in place.

6. In a package, an article having a perforation and a packing device for said article, of boxboard, and having body walls in articulation, a spaced pair of said body walls having flaps articulated to their ends, another spaced pair of said body walls having end portions extending beyond the ends of the first mentioned pair of body walls, said packing device being in erected condition with said flaps bent over and said first mentioned walls extending through the perforation in the packed article, the last mentioned pair of walls lying respectively on each side of said article and retaining it in place; one at least of said last mentioned walls being in unscored condition.

7. A packaged article comprising an annular pad of metal wool or the like and a packing device of boxboard comprising a tubular structure with body walls in articulation, a spaced pair of said body walls having flaps articulated to their ends, another spaced pair of said body walls having end portions which extend substantially beyond the ends of the first mentioned body walls, said packing device, in erected condition and with said flaps bent over, extending through the central orifice of said annular pad with said last mentioned body walls extending on either side of said pad to retain it.

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